

# **CURRICULUM VITAE**

## **G. Patrick Lambert, Ph.D.**

### **CONTACT INFORMATION**

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### **DEGREES EARNED**

- Ph.D.** Exercise Physiology, University of Iowa, 2001
- M.A.** Exercise Physiology, Ball State University, 1990
- B.S.** Exercise and Health Science, Alma College, 1988

### **PROFESSIONAL AFFILIATIONS**

- American College of Sports Medicine (1989-present)
- American Physiological Society (2001-present)
- Nebraska Physiological Society (2005-present)

### **PROFESSIONAL EXPERIENCE**

August 2016 - present: Creighton University, Omaha, NE  
Primary Appointment: Professor, Department of Exercise Science and Pre-Health Professions

August 2008 - July 2016: Creighton University, Omaha, NE  
Primary Appointment: Associate Professor, Department of Exercise Science  
Secondary Appointment: Associate Professor, Department of Biomedical Sciences (2005-2015)

August 2002 - July 2008: Creighton University, Omaha, NE  
Primary Appointment: Assistant Professor, Department of Exercise Science  
Secondary Appointment: Assistant Professor, Department of Biomedical Sciences (2005-2008)

July 2001 - July 2002: University of Nebraska Medical Center, Omaha, NE  
Postdoctoral Research Associate - Pulmonary and Critical Care Medicine - Internal Medicine

January 1998 - May 2000: St. Ambrose University, Davenport, IA  
Adjunct Instructor - Department of Sport, Health and Physical Education

January 1996 - December 2000: University of Iowa, Iowa City, IA.  
Adjunct Instructor - Department of Exercise Science

August 1994 - May 1996: Kirkwood Community College, Cedar Rapids, IA  
Adjunct Instructor - Department of Math and Science

August 1990 - July 2001: University of Iowa, Iowa City, IA.  
Graduate and Professional Research Assistant - Department of Exercise Science

August 1988 - May 1990: Ball State University, Muncie, IN  
Graduate Research Assistant – Human Performance Laboratory

Summers 1986 - 1990: Cardiac Conditioning Center, Pontiac, MI  
Cardiac Rehabilitation Technician

## **PROFESSIONAL CERTIFICATIONS**

- American College of Sports Medicine - *Certified Clinical Exercise Physiologist*® (1992-present)

## **SCHOLARSHIP**

### **FUNDED RESEARCH GRANTS**

Creighton University - Center for Undergraduate Research and Scholarship Faculty Research Fund, 2016-17. **G.P. Lambert** (Principal Investigator), S.J. Lanspa (Co-Investigator). Effect of ibuprofen dose on gastrointestinal permeability in healthy individuals. **Total award: \$2500**

Creighton University - Dr. George F. Haddix President's Faculty Research Fund, 2014-15. **G.P. Lambert** (Principal Investigator), S.J. Lanspa (Co-Investigator). Intestinal permeability in obese individuals before, during, and after weight loss. **Total award: \$9600**

Zinpro Corporation, 2011-2012. **G.P. Lambert** (Principal Investigator). Biochemical analysis of equine blood and urine samples to assess gastrointestinal permeability in thoroughbred horses. **Total award: \$16,768**

Gatorade Sport Science Institute, 2008-2012. **G.P. Lambert** (Principal Investigator), S.J. Lanspa (Co-Investigator). Effect of a probiotic on gastrointestinal permeability following aspirin use. **Total award: \$42,938**

Gatorade Sport Science Institute, 2005-2007. **G.P. Lambert** (Principal Investigator), J.J. O'Brien (Co-Investigator), S.J. Lanspa (Co-Investigator). Effect of L-Arginine on intestinal absorption of a glucose-electrolyte solution; Effect of fluid ingestion during prolonged exercise on gastrointestinal permeability; Sensory and gastric responses to fluid ingestion during physical training. **Total award: \$124,198**

Gatorade Sport Science Institute, 2003-2004. **G.P. Lambert** (Principal Investigator), S.J. Lanspa (Co-Investigator). Effect of carbohydrate concentration and composition on intestinal absorption of fluid replacement solutions. **Total award: \$29,621**

Gatorade Sport Science Institute, 2002-2003. **G.P. Lambert** (Principal Investigator). Pilot Study: Effect of carbohydrate concentration and composition on intestinal absorption of fluid replacement solutions. **Total Award: \$40,700**

Heartland Center for Occupational Health and Safety, 2001-2002. **G.P. Lambert**. Post-Doctoral Research Grant. **Total Award: \$15,000**

Gatorade Sports Science Institute, 1998. Graduate Student Research Grant. **Total Award: \$1000**

### **RESEARCH AWARDS**

American Physiological Society: Environmental and Exercise Physiology Section, 2001. Graduate Student Recognition Award. Total Award: \$500

American Physiological Society: Environmental and Exercise Physiology Section, 2000. Graduate Student Recognition Award. Total Award: \$500

## NON-FUNDED RESEARCH PROPOSALS

Dairy Research Institute (pre-proposal), 2013. G.P. Lambert (Principal Investigator). Effects of a probiotic and calcium on gastrointestinal permeability following aspirin use. Total Award: \$136,578 (not funded).

Creighton University - Dr. George F. Haddix President's Faculty Research Fund, 2013. G.P. Lambert (Principal Investigator). Intestinal permeability in obese individuals before, during, and after weight loss. Total Award: \$4,984 (not funded).

Creighton University - Academic Affairs Research Initiative Grant, 2007. G.P. Lambert (Principal Investigator). Effect of ibuprofen and exercise on gastrointestinal mucosal damage. Total Award: \$9966 (not funded).

## BOOK CHAPTERS/BOOK SECTIONS/REVIEW ARTICLES

1. **Lambert, G.P.** Gastrointestinal and Metabolic Responses to Body Fluid Imbalance during Exercise. In: Meyer, F., Sygula, Z., Wilk, B. (ed.) *Fluid Balance, Hydration, and Athletic Performance*. Boca Raton: CRC Press, Taylor & Francis Company. p. 97-108, 2015. ISBN: 978-1-4822-2328-6.
2. **Lambert, G.P.** The Gastrointestinal System. In: Tipton, C.M. (ed.) *The History of Exercise Physiology*. Champaign: Human Kinetics. p. 405-422, 2014. ISBN: 978-0-7360-8369-0
3. **Lambert, G.P.** Intestinal Absorption. In: Mooren, F.C. (ed.) *Encyclopedia of Exercise Medicine in Health and Disease*. Heidelberg: Springer. p. 473-475, 2012. ISBN: 978-540-36065-0
4. **Lambert, G.P., X. Shi, R. Murray.** The Gastrointestinal System. In: Farrell, P.A., Joyner, M.J., Caiozzo, V.J. (eds.) *ACSM's Advanced Exercise Physiology*. 2<sup>nd</sup> Ed. Philadelphia: Lippincott, Williams and Wilkins. p. 348-362, 2012. ISBN: 978-0-7817-9780
5. **Lambert, G.P.** Stress-induced gastrointestinal barrier dysfunction and its inflammatory effects. *J. Anim. Sci.* 87: E101-E108, 2009.
6. **Lambert, G.P.** Intestinal Barrier Dysfunction, Endotoxemia, and Gastrointestinal Symptoms: The "Canary in the Coal Mine" during Exercise-Heat Stress? In: Marino F.E. (ed.) *Thermoregulation and Human Performance. Physiological and Biological Aspects*. Med. Sports Sci. Basel, Karger. Vol. 53, p. 61-73, 2008. ISBN: 978-3-8055-8648-1
7. **Lambert, G.P.** Role of gastrointestinal permeability in exertional heatstroke. *Exer. Sport Sci. Rev.* 32 (4): 185-190, 2004.

## PEER-REVIEWED RESEARCH ARTICLES

1. **Lambert, G.P., A. Schmidt, K. Schwarzkopf, S. Lanspa.** Effect of aspirin dose on gastrointestinal permeability. *Int. J. Sports Med.* 33(6): 421-425, 2012.
2. **Lambert, G.P., J. Lang, R. Welch, S. Lanspa.** The effect of L-arginine on absorption of a glucose-electrolyte solution in humans. *J. Exerc. Physiol. online*, 14(4):75-86, 2011.
3. **Lambert, G.P., J.A. Lang, A.J. Bull, J.M. Eckerson, S.J. Lanspa, J.J. O'Brien.** Fluid tolerance during running: effect of repeated trials. *Int. J. Sports Med.* 29: 878-882, 2008.
4. **Lambert, G.P., S.J. Lanspa, R. Welch, and X. Shi.** Combined effects of glucose and fructose on fluid absorption from hypertonic carbohydrate-electrolyte beverages. *J. Exerc. Physiol. online*, 11(2):46-55, 2008.

5. **Lambert, G.P.**, J.A. Lang, A.J. Bull, P.C. Pfeifer, J.M. Eckerson, G.A. Moore, S.J. Lanspa, and J.J. O'Brien. Fluid restriction increases GI permeability during running. *Int. J. Sports Med.* 29(3): 194-198, 2008.
6. **Lambert, G.P.**, M.W. Boylan, J.P. Laventure, A.J. Bull, S.J. Lanspa. Effect of aspirin and ibuprofen on GI permeability during exercise. *Int. J. Sports Med.* 28(9): 722-726, 2007.
7. Lang, J.A., C.V. Gisolfi, **G.P. Lambert**. Effect of exercise intensity on active and passive carbohydrate absorption. *Int. J. Sport Nutr. Exer. Metab.* 16: 485-493, 2006.
8. Rogers, J., R.W. Summers, **G.P. Lambert**. Gastric emptying and intestinal absorption of a low-carbohydrate sport drink during exercise. *Int. J. Sport Nutr. Exer. Metab.* 15: 220-235, 2005.
9. **Lambert, G.P.**, J.R. Spurzem, D.J. Romberger, T.A. Wyatt, E. Lyden. A.M. Stromquist, J.A. Merchant, S.G. Von Essen. Tumor necrosis factor- $\alpha$  hyper-responsiveness to endotoxin in whole blood is associated with chronic bronchitis in farmers. *J. Agromedicine.* 10(1): 39-44, 2005.
10. LeVan, T.D., S. Von Essen, **G.P. Lambert**, F.D. Martinez, M.M. Vasquez, J.A. Merchant. Polymorphisms in the CD14 gene are associated with pulmonary function in farmers. *Am. J. Respir. Crit. Care Med.* 7: 773-779, 2005.
11. **Lambert, G.P.**, C.V. Gisolfi, D.J. Berg, P.L. Moseley, L.W. Oberley, and K.C. Kregel. Molecular Biology of Thermoregulation: Selected contribution: Hyperthermia-induced intestinal permeability and the role of oxidative and nitrosative stress. *J. Appl. Physiol.* 92: 1750-1761, 2002.
12. **Lambert, G.P.**, B. Mason, L. Broussard, T. Xia, R.W. Summers, and C.V. Gisolfi. Gastrointestinal permeability during exercise: effects of aspirin and energy-containing beverages. *J. Appl. Physiol.* 90(6): 2075-2080, 2001.
13. Gisolfi, C.V., **G.P. Lambert**, and R.W. Summers. Intestinal fluid absorption during exercise: Role of sport drink osmolality and  $[Na^+]$ . *Med. Sci. Sports Exerc.* 33(6): 907-915, 2001.
14. Popowski, L.A., R.A. Oppliger, **G.P. Lambert**, R.F. Johnson, A.K. Johnson, and C.V. Gisolfi. Blood and urinary measures of hydration status during progressive acute dehydration. *Med. Sci. Sports Exerc.* 33(5): 747-753, 2001.
15. Smetanka, R.D., **G.P. Lambert**, R. Murray, D. Eddy, M. Horn, and C.V. Gisolfi. Intestinal permeability in runners in the 1996 Chicago Marathon. *Int. J. Sport Nutr.* 9: 426-433, 1999.
16. Rao, S.S.C., J. Beaty, M. Chamberlain, **P.G. Lambert**, and C.V. Gisolfi. Effects of acute graded exercise on human colonic motility. *Am. J. Physiol.* 276: G1221-G1226, 1999.
17. Chang, R.T., **G.P. Lambert**, P.L. Moseley, F.K. Chapler, and C.V. Gisolfi. Effect of estrogen supplementation on exercise thermoregulation in premenopausal women. *J. Appl. Physiol.* 85(6): 2082-2088, 1998.
18. Gisolfi, C.V., R.W. Summers, **G.P. Lambert**, and T. Xia. Effect of beverage osmolality on intestinal fluid absorption during exercise. *J. Appl. Physiol.* 85(5): 1941-1948, 1998.
19. Ryan, A.J., **G.P. Lambert**, X. Shi, R.T. Chang, R.W. Summers, and C.V. Gisolfi. Effect of hypohydration on gastric emptying and intestinal absorption during exercise. *J. Appl. Physiol.* 84(5): 1581-1588, 1998.
20. Shi, X., H.P. Schedl, R.W. Summers, **G.P. Lambert**, R.T. Chang, T. Xia, and C.V. Gisolfi. Fructose transport mechanisms in humans. *Gastroenterology* 113: 1171-1179, 1997.
21. **Lambert, G.P.**, R.T. Chang, T. Xia, R.W. Summers, and C.V. Gisolfi. Absorption from different intestinal segments during exercise. *J. Appl. Physiol.* 83 (1): 204-212, 1997.

22. **Lambert, G.P.** and D.L. Costill. Submaximal blood lactate and heart rate measurements as indicators of training status in college distance runners. *J. Strength and Cond. Res.* 10(2): 93-97, 1996.
23. **Lambert, G.P.**, R.T. Chang, D.J. Joensen, X. Shi, H.P. Schedl, R.W. Summers, and C.V. Gisolfi. Simultaneous determination of gastric emptying and intestinal absorption during cycle exercise in humans. *Int. J. Sports Med.* 17: 48-55, 1996.
24. Shi, X., R.W. Summers, H.P. Schedl, R.T. Chang, **G.P. Lambert**, and C.V. Gisolfi. Effects of solution osmolality on absorption of select fluid replacement solutions in the human duodenojejunum. *J. Appl. Physiol.* 77(3): 1178-1184, 1994.
25. **Lambert, G.P.**, T.L. Bleiler, R.T. Chang, A.K. Johnson, and C.V. Gisolfi. Effects of voluntary consumption of carbonated and non-carbonated beverages at specific intervals during prolonged treadmill running in the heat. *Int. J. Sport Nutr.* (3): 177-193, 1993.
26. Lambert, C.P., D.L. Costill, G.K. McConell, M.A. Benedict, **G.P. Lambert**, R.A. Robergs, and W.J. Fink. Fluid replacement after dehydration: influence of beverage carbonation and carbohydrate content. *Int. J. Sports Med.* 13(4): 285-292, 1992.

#### **PROCEEDINGS PAPERS (Non-Peer Reviewed)**

1. **Lambert, G.P.** The Gut and Exercise Performance. In "The Measure of Performance" *Proceedings of the 2011 Equine Conference*, West Palm Beach, FL (sponsored by Zinpro Corporation), pp. 1-8, 2011.
2. **Lambert, G.P.** Potential Nutritional Interventions to Reduce Physical- and/or Hyperthermia-Induced Gut Barrier Dysfunction. *Proceedings of the California Animal Nutrition Conference*, Fresno, CA, pp. 68-74, May, 2010.

#### **ABSTRACTS FROM SCIENTIFIC MEETINGS/RESEARCH PRESENTATIONS**

1. **Lambert, G.P.**, S. J. Lanspa, G.A. Moore, J. C. Yee. Obesity does not alter urinary concentrations of markers of intestinal barrier dysfunction. *St. Albert's Day/University Research Day Program 2015*: Abstract 4, pg. 80.
2. **Lambert, G.P.**, M. Novoa, M. Wulff, S.J. Lanspa. Urinary concentrations of physiological markers of intestinal barrier dysfunction do not increase with acute aspirin use. *Experimental Biology 2014*: LB749. Presented at 2014 Experimental Biology Annual Meeting.
3. Schmidt A.K, S.J. Lanspa, and **G.P. Lambert**. Effect of acute aspirin dose on gastrointestinal permeability. *Med. Sci. Sports Exerc.* 43(5 Suppl.): S638, 2011. Presented at 2011 American College of Sports Medicine Annual Meeting.
4. **Lambert, G.P.**, N. Bedard, G. Holte, A. Schmidt, S. Lanspa. Lactobacillus acidophilus supplementation for 7 days does not reduce acute aspirin-induced gastrointestinal permeability *Experimental Biology 2009*: LB128, 2009. Presented at 2009 Experimental Biology Annual Meeting.
5. **Lambert, G.P.**, J.A. Lang, A.J. Bull, J.M. Eckerson, S.J. Lanspa, J.J. O'Brien. Fluid tolerance during running: effect of repeated trials. *FASEB J.* 22:956.21, 2008. Presented at 2008 Experimental Biology Annual Meeting.
6. **Lambert, G.P.**, J. Lang, R. Welch, S. Lanspa, and J. O'Brien. L-arginine in low concentration does not enhance intestinal water absorption from a dilute glucose-electrolyte solution in healthy humans. *Experimental Biology 2007*: LB502, 2007. Presented at 2007 Experimental Biology Annual Meeting.
7. **Lambert, G.P.**, J.A. Lang, A.J. Bull, P.C. Pfeifer, J.M. Eckerson, and G.A. Moore. Effect of fluid replacement during distance running on gastrointestinal barrier function. *Proceedings of the 2006 Nebraska Physiological Society Annual Meeting*, Omaha, NE.

8. Lang, J.A., C.V. Gisolfi, and **G.P. Lambert**. Effect of exercise intensity on active and passive carbohydrate absorption. Proceedings of the 2006 Nebraska Physiological Society Annual Meeting, Omaha, NE.
9. **Lambert, G.P.**, S.J. Lanspa, R. Welch, and X. Shi. Intestinal absorption of hypertonic solutions containing glucose or glucose and fructose. *Experimental Biology 2006*: LB27, 2006. Presented at 2006 Experimental Biology Annual Meeting.
10. **Lambert, G.P.**, J.P. Laventure, M.W. Boylan, A.J. Bull, S.J. Lanspa. Gastric comfort and gastric emptying rate are not altered by repeated fluid ingestion during physical training. *Experimental Biology 2005*: LB128. Proceedings of the 2005 Experimental Biology Annual Meeting.
11. Boylan, M.W., J.P. Laventure, A.J. Bull, S.J. Lanspa, **G.P. Lambert**. Comparison of the effects of aspirin and ibuprofen on gastrointestinal (GI) permeability during prolonged exercise. *Experimental Biology 2005*: LB129. Proceedings of the 2005 Experimental Biology Annual Meeting.
12. **Lambert, G.P.** Comparison of gastric emptying rates determined by two methods during exercise. *Experimental Biology 2004*: LB452. Proceedings of the 2004 Experimental Biology Annual Meeting.
13. **Lambert, G.P.**, J.R. Spurzem, D. Romberger, S. Von Essen, T.A. Wyatt, A. Stromquist, and J. Merchant. Association between whole blood cytokine responsiveness and respiratory symptoms in non-smoking, non-atopic farmers. *FASEB J.* 17(4): A89, 2003. Presented at 2003 Experimental Biology Annual Meeting.
14. **Lambert, G.P.**, T.L. Mathisen, T.A. Wyatt, S.I. Rennard, S.G. Von Essen, X. Liu, and D.J. Romberger. Hog dust extract increases matrix metalloproteinase-9 (MMP-9) release by THP-1 cells. *Am. J. Resp. Crit. Care Med.* 165(8): A523, 2002. Presented at 2002 American Thoracic Society Annual Meeting.
15. **Lambert, G.P.**, R.D. Matthes, P.L. Moseley, D.J. Berg, L.W. Oberley, K.C. Kregel, and C.V. Gisolfi. Heat stress increases intestinal permeability: The everted gut sac model and the role of oxidative/nitrosative stress. *FASEB J.* 15(4), A93, 2001. Presented at 2001 Experimental Biology Annual Meeting.
16. Mendoza, J.R., **G.P. Lambert**, R.W. Summers, and C.V. Gisolfi. Effects of a low-carbohydrate sports drink on gastric emptying and intestinal fluid absorption during exercise. *Med. Sci. Sports Exerc.* 32(5 Suppl.): S238, 2000. Presented at 2000 American College of Sports Medicine Annual Meeting.
17. **Lambert G.P.**, R.D. Matthes, C.V. Gisolfi. Effect of severe heat stress on intestinal permeability in rats. *FASEB J.* 14(4), A613, 2000. Presented at 2000 Experimental Biology Annual Meeting.
18. **Lambert, G.P.**, R. Murray, D. Eddy, W. Scott, R. Laird, and C.V. Gisolfi. Intestinal permeability following the 1998 Ironman Triathlon. *Med. Sci. Sports Exerc.* 31(5 Suppl.): S318, 1999. Presented at 1999 American College of Sports Medicine Annual Meeting.
19. Popowski, L.A., R.A. Oppliger, **G.P. Lambert**, A.K. Johnson, C.V. Gisolfi. Is urine specific gravity a satisfactory measure of hydration status? *Med. Sci. Sports Exerc.* 31(5 Suppl.): S323, 1999. Presented at 1999 American College of Sports Medicine Annual Meeting.
20. Gisolfi, C.V., **G.P. Lambert**, R.W. Summers. Effect of [Na<sup>+</sup>] and hypoosmolality of an ORS on intestinal fluid absorption. *FASEB J.* 13(5 Part 2): A732, 1999. Presented at the 1999 Experimental Biology Annual Meeting.
21. **Lambert G.P.**, B. Mason, L. Broussard, T Xia, R.W. Summers, C.V. Gisolfi. Intestinal absorption and permeability during exercise with aspirin: Effects of glutamine in replacement beverages. *FASEB J.* 12(4): A370, 1998. Presented at the 1998 Experimental Biology Annual Meeting.

22. **Lambert, G.P.**, R.T. Chang, T. Xia, R.W. Summers, C.V. Gisolfi. Segmental differences in fluid absorption from the small intestine during exercise. Presented at the 1997 American Physiological Society Intersociety Meeting: Integrative Biology of Exercise.
23. Smetanka, R.D., **G.P. Lambert**, R. Murray, D. Eddy, M. Horn, and C.V. Gisolfi. Gastrointestinal permeability of runners following the 1996 Chicago Marathon. *Med. Sci. Sports Exerc.* 29(5 Suppl.): S131, 1997. Presented at 1997 American College of Sports Medicine Annual Meeting.
24. Aker, J.G., B. Lynch, **G.P. Lambert**, and C.V. Gisolfi. Effects of exercise intensity, heat and dehydration on intestinal permeability and selected physiological variables. *Med. Sci. Sports Exerc.* 29(5 Suppl.): S132, 1997. Presented at 1997 American College of Sports Medicine Annual Meeting.
25. Shi, X. R.W. Summers, **G.P. Lambert**, R. Chang, T Xia, C.V. Gisolfi. Fructose transport mechanisms and their role in water absorption in humans. *Med. Sci. Sports Exerc.* 27(5 Suppl.): S250, 1995. Presented at 1995 American College of Sports Medicine Annual Meeting.
26. Ryan, A., **G. Lambert**, X. Shi, R. Chang, R. Summers, C. Gisolfi. Effect of hypohydration on gastric emptying and intestinal absorption during exercise. *FASEB J.* 9(3): A292, 1995. Presented at the 1995 Experimental Biology Annual Meeting.
27. **Lambert G.P.**, R.T. Chang, D.J. Joensen, X. Shi, H.P. Schedl, R.W. Summers, C.V. Gisolfi. Simultaneous determination of gastric emptying and intestinal absorption. *FASEB J.* 8(4-5): A308, 1994. Presented at the 1994 Experimental Biology Annual Meeting.
28. Lambert C.P., D.L. Costill, G.K. McConell, M.A. Benedict, **G.P. Lambert**, R.A. Robergs, W.J. Fink. Fluid replacement: influence of beverage carbonation and carbohydrate content. *Med. Sci. Sports Exerc.* 23(4 Suppl.): S129, 1991. Presented at 1991 American College of Sports Medicine Annual Meeting.
29. Davis, J.A., D.L. Costill, **G.P. Lambert**, G.A. Beard, M.A. Benedict, C.P. Lambert. Response of borderline hypertensive men to a regimen of heat acclimation. *Med. Sci. Sports Exerc.* 22(2 Suppl.): S49, 1990. Presented at 1990 American College of Sports Medicine Annual Meeting.
30. **Lambert, G.P.**, J.E. Davis, J.D. Seelbach. Changes in physiological characteristics of collegiate cross country runners over a cross-country season. Proceedings of the 1988 Midwest Chapter of the American College of Sports Medicine Annual Meeting.

## INVITED PRESENTATIONS

1. **Lambert, G. Patrick.** *Human Studies in Gastric Emptying, Intestinal Absorption, and Gut Permeability.* Creighton University Department of Medicine - Gastroenterology, Grand Rounds, Omaha, NE (2017)
2. **Lambert, G. Patrick.** *The Science of Hydration: No Guts, No Glory!* 17<sup>th</sup> Annual Meeting of the Nebraska Physiological Society, Omaha, NE (2014)
3. **Lambert, G. Patrick.** *William Beaumont: Experiments on Exercise and Digestion and Their Impact.* Experimental Biology Meeting, Boston, MA (2013)
4. **Lambert, G. Patrick.** *Heat-Stress Induced Gut Barrier Dysfunction and Related Factors.* Heat Stress Symposium, Iowa State University, Ames, IA (2013)
5. **Lambert, G.P.**, A.K. Schmidt, K.A. Schwarzkopf, S.J. Lanspa. *Effect of Acute Aspirin Dose and the Menstrual Cycle on Gastrointestinal Permeability.* Creighton University School of Medicine. The Faculty Club: Celebrating Excellence in Basic Science, Clinical and Translational Research. (2012)

6. **Lambert, G. Patrick.** *The Gut and Exercise Performance.* 2011 Zinpro Equine Conference, West Palm Beach, FL (2011)
7. **Lambert, G. Patrick.** *Effect of Heat Stress and Strenuous Exercise on Gut Barrier Function.* Nutracon Conference, Anaheim, CA (2011)
8. **Lambert, G. Patrick.** *Potential Nutritional Interventions to Reduce Physical- and/or Hyperthermia-Induced Gut Barrier Dysfunction.* California Animal Nutrition Conference, Fresno, CA (2010)
9. **Lambert, G.P.,** N. Bedard, G. Holte, A. Schmidt, S. Lanspa. *Lactobacillus acidophilus supplementation for 7 days does not reduce acute aspirin-induced gastrointestinal permeability.* Creighton University School of Medicine. The Faculty Club: Recognizing Excellence in Biomedical and Translational Research. Research at Center Stage. Holland Performing Arts Center, Omaha, NE. (2010)
10. **Lambert, G. Patrick.** *Intestinal Barrier Function – State of the Art.* Zinpro Technical Meeting, Owatonna, MN (2009)
11. **Lambert, G. Patrick.** *Stress-Induced Intestinal Barrier Dysfunction and Its Effects.* American Society for Animal Science (ASAS) Annual Conference, Indianapolis, IN (2008)
12. **Lambert, G. Patrick.** *The Impact of Heat Stress on Intestinal Barrier Function and the Immune Response.* American Society for Animal Science (ASAS) Annual Conference, San Antonio, TX (2007)
13. **Lambert, G. Patrick.** *Intestinal Absorption of Sport Drinks.* Gatorology 555 - Gatorade Sports Science Institute Conference, Chicago, IL (2005)
14. **Lambert, G. Patrick.** *Can significant potassium loss and/or hypokalemia occur during the Ironman triathlon?* Hawaii Ironman Sports Medicine Conference, Kailua-Kona, HI (1998)

#### **MENTORED UNDERGRADUATE STUDENT RESEARCH - ABSTRACTS/POSTER PRESENTATIONS**

1. Nolting, A. and **G.P. Lambert.** Intestinal tight junction integrity may not be compromised in healthy individuals with obesity. Creighton University Honors Day, Creighton University, April 15, 2015.
2. Tymkowicz, A. and **G.P. Lambert.** Intestinal enterocyte damage is not increased with obesity in healthy individuals. Creighton University Honors Day, Creighton University, April 15, 2015.
3. Novoa, M.L. and **G.P. Lambert.** Effect of acute aspirin ingestion on urinary D-Lactate concentration. Creighton University Honors Day, Creighton University, April 11, 2012.
4. Schmidt, A.K, S.J. Lanspa, and **G.P. Lambert.** Effect of acute aspirin dose on gastrointestinal permeability. St. Albert's Day Student Research Forum, Creighton University, April 29, 2010.
5. Schwarzkopf, K.A, S.J. Lanspa, **G.P. Lambert.** Effect of the menstrual cycle on permeability of the gastrointestinal barrier. Creighton University Honors Day, Creighton University, April 22, 2009.
6. Boylan, M.W., J.P. Laventure, A.J. Bull, S.J. Lanspa, **G.P. Lambert.** Comparison of the effects of aspirin and ibuprofen on gastrointestinal (GI) permeability during prolonged exercise. Creighton University Honors Day, Creighton University, 2005.



## **UNDERGRADUATE STUDENT RESEARCHERS – Students mentored (2003- present)**

1. Mihir Joshi (2003)
2. J.P. Laventure (2004)
3. Shannon St. John (2004)
4. Jill Johnson (2004)
5. Matt Boylan (2004, 2005)
6. Justin Moseley (2006)
7. Nic Bedard (2008)
8. Gina Holte (2008)
9. Angie Schmidt (2008, 2009)
10. Kristen Schwarzkopf (2009)
11. Madeline Novoa (2011, 2012)
12. Mary Wulff (2013)
13. Morgan Busboom (2014)
14. Andrew Flaherty (2014)
15. Leah Hamilton (2014, 2016)
16. Alex Heimes (2014)
17. William Herron (2014)
18. Ashley Nolting (2014, 2015)
19. Mariah Sommerhalder (2014)
20. Alexandria Tymkowicz (2014, 2015)
21. Daniel Zenarosa (2014)
22. Megan Vande Hei (2015, 2016)
23. Kevin Mugno (2016)
24. Whitney Coriolan (2016)
25. Abigail Klick (2016)

## **TEACHING**

### **COURSES TAUGHT AT CREIGHTON UNIVERSITY**

- Human Physiology (2002-present)
- Biomechanics (2002-2014)
- Human Anatomy (2004)
- Directed Independent Research (2002-present)

### **COURSES TAUGHT AT OTHER INSTITUTIONS**

- Exercise Physiology for Practitioners - University of Iowa, Iowa City, IA (1996-2000)
- Exercise Physiology - St. Ambrose University, Davenport, IA (1998-2000)
- Human Anatomy and Physiology - Kirkwood Community College, Cedar Rapids, IA (1994-1996)

### **GUEST LECTURES**

- Physiological Adjustments to Exercise - University of Nebraska School of Medicine (2010-present)
- Fluid Balance During Exercise - Creighton University School of Medicine (2004-present)
- GI Physiology - Advanced Exercise Physiology course - University of Iowa (1999)
- Temperature Regulation - Human Physiology course - University of Iowa (1998)

## **OTHER TEACHING EXPERIENCE**

- Graduate Teaching Assistant - Exercise Physiology Lab - University of Iowa (1990-91)
- Graduate Teaching Assistant - Jogging - University of Iowa (1990-91)
- Undergraduate Teaching Assistant - Fitness for Life - Alma College (1984)

## **TEACHING RECOGNITION**

- Who's Who Among America's Teachers (2005); nominated by former student

## **SERVICE**

### **PEER REVIEWER – Scientific Journals (Year – Number of articles reviewed)**

- American Journal of Physiology: Regulatory, Integrative, and Comparative Physiology (2007-1; 2011-2)
- British Journal of Sports Medicine (2012-1)
- Clinical and Experimental Pharmacology and Physiology (2005-1; 2014-1)
- Critical Care Medicine (2009-1, 2010-1, 2013-1)
- European Journal of Applied Physiology (2008-1; 2015-1; 2016-1)
- European Respiratory Journal (2002-1)
- Exercise and Sport Sciences Reviews (2002-1)
- Experimental Physiology (2016-1)
- International Journal of Sports Medicine (1999-1, 2008-1, 2012-1)
- International Journal of Sport Nutrition and Exercise Metabolism (2005-1, 2007-1, 2008-2, 2009-2, 2011-1)
- Journal of Animal Science (2012-1)
- Journal of Applied Physiology (2001-1, 2003-1, 2006-1, 2009-4, 2010-1, 2011-4; 2012-1; 2013-3, 2014-1; 2015-5)
- Journal of Thermal Biology (2013-2)
- Life Sciences (2008-1)
- Medicine and Science in Sports and Exercise (1999-1, 2000-2, 2007-2, 2008-3, 2009-1, 2010-1; 2013-1; 2014-1; 2016-1)
- Sports Medicine (2016-2)
- Temperature (2014-1)

### **PEER REVIEWER – Book Chapter**

- ACSM's Advanced Exercise Physiology – *Chapter 15: The Gastrointestinal System* (2003)

### **EXTERNAL REVIEWER – Ph.D. Dissertation**

- Ong, M. *The effects of glutamine supplementation on heat shock protein regulation and gastrointestinal responses to exercise heat stress*. The University of Sydney, Sydney, Australia (2014)

### **EXTERNAL REVIEWER - Master's Degree Dissertation**

- Smith, R.M. *The effect of a tumor necrosis factor-alpha antibody on gut permeability in rats during exposure to a heat stress*. University of the Witwatersrand, Johannesburg, South Africa (2006)

### **INVITED REVIEWER – US Army**

- US Army Small Business Innovative Research Phase I Grant Proposals (2007)
- US Army Medical Research and Materiel Command S & T Working Group Review (2004)
- US Army Joint Medical Technology Workshop - "Environmental Extremes" Section (2003)

## **CREIGHTON UNIVERSITY SERVICE (2002-present)**

- University Service
  - Academic Affairs - Research Advisory Committee (2009-2015)
  - Faculty/Academic Council (Fall 2007-Spring 2010)
  - Skutt Student Center Advisory Board (2003-2007)
- College of Arts and Sciences Service
  - Faculty Senate (Fall 2013-May 2014; May 2015-present)
  - Pre-Health Sciences Advisory Committee (2003-present)
  - Pre-Health Sciences Advisor (2003-present)
- Department of Exercise Science and Pre-Health Professions Service
  - Academic Advisor (2002-present)
  - Chemical Hygiene Coordinator (Fall 2004-present)
  - Participant - Admission Fairs, Open Houses, etc. (2002-present)
  - Participant – Exercise Science and Pre-Health Professions Major’s Club (2002-present)
  - CU Indoor Triathlon Volunteer (2007)

## **PROFESSIONAL SERVICE**

- Past-President - Nebraska Physiological Society (2011-2012)
- President - Nebraska Physiological Society (2010-2011)
- Chapter Advisory Committee - American Physiological Society (2010-2011)
- President-Elect - Nebraska Physiological Society (2009-2010)
- Councilor - Nebraska Physiological Society (2008-2009)
- Key Contact - American College of Sports Medicine (2009)
- Volunteer - American College of Sports Medicine – Registration for Fun Run, New Orleans, LA; (2007)